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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/544,492	04/07/2000	Swain W. Porter	112076-138333	1773
25943	7590 08/23/2006		EXAM	INER
SCHWABE, WILLIAMSON & WYATT, P.C.			BULLOCK JR, LEWIS ALEXANDER	
PACWEST C	ENTER, SUITE 1900	•		
1211 SW FIFTH AVENUE			ART UNIT	PAPER NUMBER
PORTI AND OR 97204			2105	

DATE MAILED: 08/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/544,492	PORTER, SWAIN W.	
Office Action Summary	Examiner	Art Unit	
	Lewis A. Bullock, Jr.	2195	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  rill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONEI	Lely filed the mailing date of this communication. O (35 U.S.C. § 133).	
Status			
<ul> <li>1) ☐ Responsive to communication(s) filed on 18 Mes</li> <li>2a) ☐ This action is FINAL. 2b) ☐ This</li> <li>3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E</li> </ul>	action is non-final. ace except for formal matters, pro		
Disposition of Claims			
<ul> <li>4) ☐ Claim(s) 1-29 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5) ☐ Claim(s) 1-16 and 27-29 is/are allowed.</li> <li>6) ☐ Claim(s) 17-26 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or</li> </ul>			
Application Papers			
9) The specification is objected to by the Examiner  10) The drawing(s) filed on is/are: a) access  Applicant may not request that any objection to the or  Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s)  1)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)	

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 23-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claims 23-26 are not supported or enabled to operate. Independent claims 23 and 25 both detail the privilege remapper configured to remap a current privilege level using an instruction of the processor to a different current privilege level wherein the remapping is performed independent of the operating system, the instruction, and the task. It would be impossible for one to have a remapper remapping privilege levels using an instruction of the processor and wherein the remapping is performed independent of the very instruction that is being used to perform the remapping. In essence, you couldn't call the very instruction that performs a remap operation but somehow are capable to perform remapping. Applicant argues this limitation by stating that the instruction is not "invoked to perform the remapping." The examiner disagrees. If Applicant is alluding to the instruction being the operating system instruction for storing the later-remapped CPL, this is not clearly claimed. Applicant should either (1) make a separate component for the processor/apparatus of

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"an operating system using an instruction to store a current privilege level into the control register" or (2) move such use of an instruction into the control register clause wherein it is stated that the control register is accessible to an operating system. The new clause should read "a control register accessible to an operating system having an instruction to store a current privilege....". By having the clause in the privilege mapper, the claims are alluding to the remapper using an instruction of the processor and thereby cannot be independent of the instruction.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 17-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Advanced Embedded X86 Programming: Protection and Segmentation" by GAREAU.

As to claims 17-22, GAREAU teaches task being assigned a privilege level by an operating system using the concepts of call gates to remap the tasks privilege level in order to access different information (see pg. 3, PRIVILEGE LEVELS – pg. 6, Mixing Privilege Levels). It would be obvious to one of ordinary skill in the art that since the task invokes a call gate to alter the privilege level in order to access data, that the privilege level of the task is remapped before the privilege check is performed on the access. Otherwise, the initial current privilege level would always fail. It would also be

obvious to one of ordinary skill in the art that a task is a collection of programming instructions.

## Allowable Subject Matter

4. Claims 1-16 and 27-29 are allowed.

If claims 17-22 included the indication that the cited remapping was performed independent of the operating system, e.g. that it didn't use the kernel functions of call gates to remap privilege levels, the cited claims would be allowable over the prior art of record.

Claims 23-26 are allowable over the cited prior art of record, however, the claims are rejected under 35 USC 112 1<sup>st</sup> paragraph as detailed above.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (571) 272-3759. The examiner can normally be reached on Monday-Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 18, 2006

LEWIS A. BULLOCK, JR.
PRIMARY EXAMINER